

# Nathaniel L. Bland

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## Education Boston University

BA, Computer Science

January 2020 – December 2022

## Wentworth Institute of Technology

Computer Science

September 2018 – December 2019

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## Work Experience eDOC Innovations – Web Developer

October 2022 – August 2023

- Fixed reported bugs helping to create a smooth user experience for millions of credit union clients.
- Implemented over 100 enhancements including improved web security utilizing AES encryption, providing new features highlighted in marketing, and refactoring legacy code to decrease load times.
- Familiarity with consuming RESTful interfaces and SQL databases.
- Led daily SCRUM discussions and provided unique solutions to issues discovered in CI/CD pipeline.

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## Software Projects

### Corporate Documentation Website

January 2023

- Created website utilized by dozens of credit unions to access corporate documentation using Firebase.
- Managed user login credentials, permissions, and stored documentation as JSONs in Firebase's Database.
- Built a microservice in JavaScript to convert thousands of company markdown files to JSONs for convenient database storage and client-side stylization.
- Designed frontend using JavaScript, HTML, CSS, and PHP.

### Amplitude Onset Detection Program

December 2021

- Built an amplitude onset detector using Python that imported audio files and scanned for unwanted amplitude spikes in spectral graphs.
- Eliminated exceeding audio spikes with an error percentage of 0.02% compared to the python public librosa library error percentage of 0.46% using a dataset of 175,000 frames across 100 audio files.

### Green Posh Hackathon Website

October 2019

- Co-developed a hackathon winning website that promoted recycling by creating a virtual marketplace for users to donate or trade used clothing.
- Hosted website using WordPress and created frontend using React framework.

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## Relevant Skills

Languages: JavaScript, HTML/CSS, Java, Python, PHP, OCaml, C++

Frameworks: React, Node, Bootstrap, jQuery

Other: Git, JSON, OOP, REST APIs, Firebase, Visual Studios, MySQL, SCRUM, CI/CD, Algorithms, Data structures

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## Achievements

- Dean's list, 2018-2021
- Battalion S-1 for BU, BC, MIT, Harvard, Tufts NROTC (A leadership position in charge of organizing over 100 students across multiple universities), 2022
- Surface Warfare Club President, 2021
- Rocket Software Hackathon winner, 2019